HOE 88/F 158

Patent Claims

/1. A compound of the formula I

$$B(1)=30$$
)-Arg-A(1-21) (I),

in which B(1-30) and A(1-21) denote the B and A chain of human insulin.

- 2. A compound of the formula I for use as a pharmaceutical, in particular for the treatment of diabetes mellitus.
- 3. A pharmaceutical containing the compound of the formula I.
- 4. A pharmaceutical composed of a pharmacologically acceptable excipient and the compound of the formula I.
 - 5. The use of the compound of the formula I for the preparation of the compound of the formula II

in which A(1-21) and B(1-30) have the meaning mentioned in claim 1 and the -S-S- bridges are arranged as in insulin, or of insulin, preferably in a one-pot reaction.

6. A process for the preparation of the compound of the formula I which comprises xpr ssing a gene structure needing for this compound in a host cell, pref rably

in a bacterium or in a yeast and, if the gene structure encodes for a fusion protein, liberating the compound of the formula I from the fusion protein obtained.

- 7. A DNA, encoding for the compounds of the formula I.
- 8. A gene structure or plasmid containing the DNA as claimed in claim 7.
- 9. A host cell, preferably a bacterium or a yeast, containing the gene structure or a plasmid as claimed in claim 8.
- ∠10. A fusion protein containing the compound of the formula I, preferably bonded via a bridging member

- Met - Ile Glu - Gly - Arg -

to the "ballast component" of the fusion protein.

ands a3/

add B2/

add 7

odd 14

ioa m²/ 730 200